BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

ame of work: Estimate for Improvements to Roads and Drain at Canara Bank Layout 5th Main in Ward No. 09 (Vidyaranyapura) Vidyaranyapura Sub Division.

			Estimate Cost Rs.					2000000.00	
	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	KSRRB 300 - Excavation for road, drains and similar works KSRRB 300-1. Earthwork **excavation by manual means in ordinary** soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 **Page No. 142 / Item No. 19.1, PWD SR 2016-17**	cum							
	For Drain Desilting								
	5th Cross Canara Bank Layout		2	156.00	0.45	0.30	42.12		
	Ananda Layout 9th Cross		2	160.00	0.45	0.30	43.20		
	Sonnappa Layout 2nd Cross		2	145.00	0.45	0.30	39.15		
	Berm Cutting								
	5th Cross Canara Bank Layout		2	156.00	0.90	0.20	56.16		
	Ananda Layout 9th Cross		2	160.00	0.90	0.20	57.60		
	Sonnappa Layout 2nd Cross		2	145.00	0.90	0.20	52.20		
	Culvert		2	8.00	2.00	1.20	38.40		
							328.83	199.36	**65557.00**
	Basic Rate	82.00							
	Add loading and unloading Charges **It No 17.1 KSRRB M 100-1**	68.00							
	Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 T X 11.90Km X 2.5 / km= 38.08	38.08							
		188.08							
	Area Weightage @6%	11.28							
	Total	**199.36**							
2	Removing B.S slab of drain and stacking **Page No. 25 / Item No. 5.32 PWD SR 2016-17**	Sqm							
			2	65.00		1.35	175.50		
			2	85.00		1.35	229.50		
			2	60.00		1.35	162.00		
							567.00	65.72	**37263.00**
	Basic Rate	62.00							
	Area Weightage @ 6%	3.72							
	Total	**65.72**							
3	Removing and refixing stone slabs of drains and pointing in CM (1:3) **Page No. 25 / Item No. 5.33 PWD SR 2016-17**	Sqm							
			Qty vide Item No. 2				**567.00**	80.56	**45678.00**
	Basic Rate	76.00							
	Area Weightage @ 6%	4.56							
	Total	**80.56**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
4	KSRB 4-1.3 : Providing and laying in position **plain cement concrete of mix 1:4:8** with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation**, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. **Page No.12, Item No. 4.3 of PWD SR 2016-17**	Cum							
	Culvert		2	8.00	1.80	0.15	4.32		
							4.32	5159.02	**22287.00**
	Basic Rate	4867.00	✓				✓	✓	✓
	Area Weightage @ 6%	292.02	✓						
	Total	**5159.02**	✓						
5	KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in **basement with cement mortar 1:6**, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 **Page No. 23 / Item No. 5.9, PWD SR 2016-17**	Cum							
			2x2	8.00	0.60	0.90	17.28		
							17.28	5305.30	**91676.00**
	Basic Rate	5005.00	✓				✓	✓	–
	Area Weightage @ 6%	300.30	✓						
	Total	**5305.30**	✓						
6	KSRB 15.1.1 Providing flush pointing to square rubble, course or uncoursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications **Page No. 113 / Item No. 15.1, PWD SR 2016-17**	Sqm							
			2	8.00		0.90	14.40		
							14.40	104.76	**1509.00**
	Basic Rate	97.00	✓				✓	✓	✓
	Area Weightage @8%	7.76	✓						
	Total	**104.76**	✓						
7	KSRB 4-1.6 ; Providing and laying in position **plain cement concrete of mix 1:2:4** with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation, plinth and cills**, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. **Page No.12, Item No. 4.6 PWD SR 2016-17**	Cum							
	Culvert Coping		2	8.00	1.80	0.10	2.88	✓	
	Ramp		4	8.00	1.00	0.15	4.80	✓	
							7.68	5767.46	**44294.00** ✓

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Basic Rate	5441.00							
	Area Weightage @ 6%	326.46							
	Total	**5767.46**							
8	Providing **precast slab of 250mm thick** including cost of all materials, labour, curing, transportation, loading unloading, etc., complete as per the direction of engineer in charge - Data rate	Sqm							
	culvert deck slab		2	8.00	1.80		**28.80**	5125.00	**147600.00**
	Approved Data rate	**5125.00**							
9	KSRRB 300-47. Scarifying kankar / gravel / metal crust upto 150mm thick with pick axes and disposal of stuff including cost of all labour charges complete as per specifications. MORTH / Chapter 3 **Page No. 147 / Item No. 19.53 PWD SR 2016-17**	Sqm							
	5th Cross Canara Bank Layout		2	156.00	0.60		187.20		
	Ananda Layout 9th Cross		1	160.00	5.50		880.00		
	Sonnappa Layout 2nd Cross		2	145.00	0.60		174.00		
							1241.20	26.50	**32892.00**
	Basic Rate	25.00							
	Area Weightage @ 6%	1.50							
	Total	**26.50**							
0	KSRRB M400- Wet Mix Macadam KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 **Page No. 158 / Item No. 20.18, PWD SR 2016-17**	Cum							
	5th Cross Canara Bank Layout		2	156.00	0.60	0.20	37.44		
	Ananda Layout 9th Cross		1	160.00	5.50	0.20	176.00		
	Sonnappa Layout 2nd Cross		2	145.00	0.60	0.20	34.80		
							248.24	1768.08	**438908.00**
	Basic Rate	1668.00							
	Area Weightage @ 6%	100.08							
	Total	**1768.08**							
11	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. MORTH Specification No. 502 **Page No. 161 / Item No. 21.6, PWD SR 2016-17**	Sqm							
	5th Cross Canara Bank Layout		1	156.00	9.50		1482.00		
	Ananda Layout 9th Cross		1	160.00	5.50		880.00		
	Sonnappa Layout 2nd Cross		1	145.00	6.50		942.50		
							3304.50	27.56	**91072.00**

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Basic Rate	26.00							
	Area Weightage @ 6%	1.56							
	Total	**27.56**							
12	KSRRB M500-19. Providing and laying **bituminous concrete 40 mm thick** with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500.9 complete in all respects complete as per specifications. MORTH Specification No. 509 - using40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 45 mm) with 6 % VG-30 Bitumen **Page No. 165 / Item No. 21.22.6, PWD SR 2016-17**	cum							
	5th Cross Canara Bank Layout		1	156.00	9.50	0.040	59.28		
	Ananda Layout 9th Cross		1	160.00	5.50	0.040	35.20		
	Sonnappa Layout 2nd Cross		1	145.00	6.50	0.040	37.70		
							132.18	7270.54	**961020.00**
	Basic Rate	6859.00							
	Area Weightage @ 6%	411.54							
	Total	**7270.54**							
	Sub Total								**1979756.00**
	Third Party Inspection Charges @ 1%								**19798.00**
	Add for unforseen and rounding off	L/S							**446.00**
								Total	**2000000.00**

TECHNICAL SANCTION
Accorded For Rs. Twenty lakhs only
P-1771
Head of A/c
Div. Ref. No. 128/16-17 12/01/17
AE
EE(BTP) 12/01

Rupees Twenty Lakh(s) Only

ertificate:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per P.W.D S.R of 2016-17.
3 This work included under 2016-17 POW Grant.
4 The provisions were made in this estimate are necessary and adequate.
5 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 09

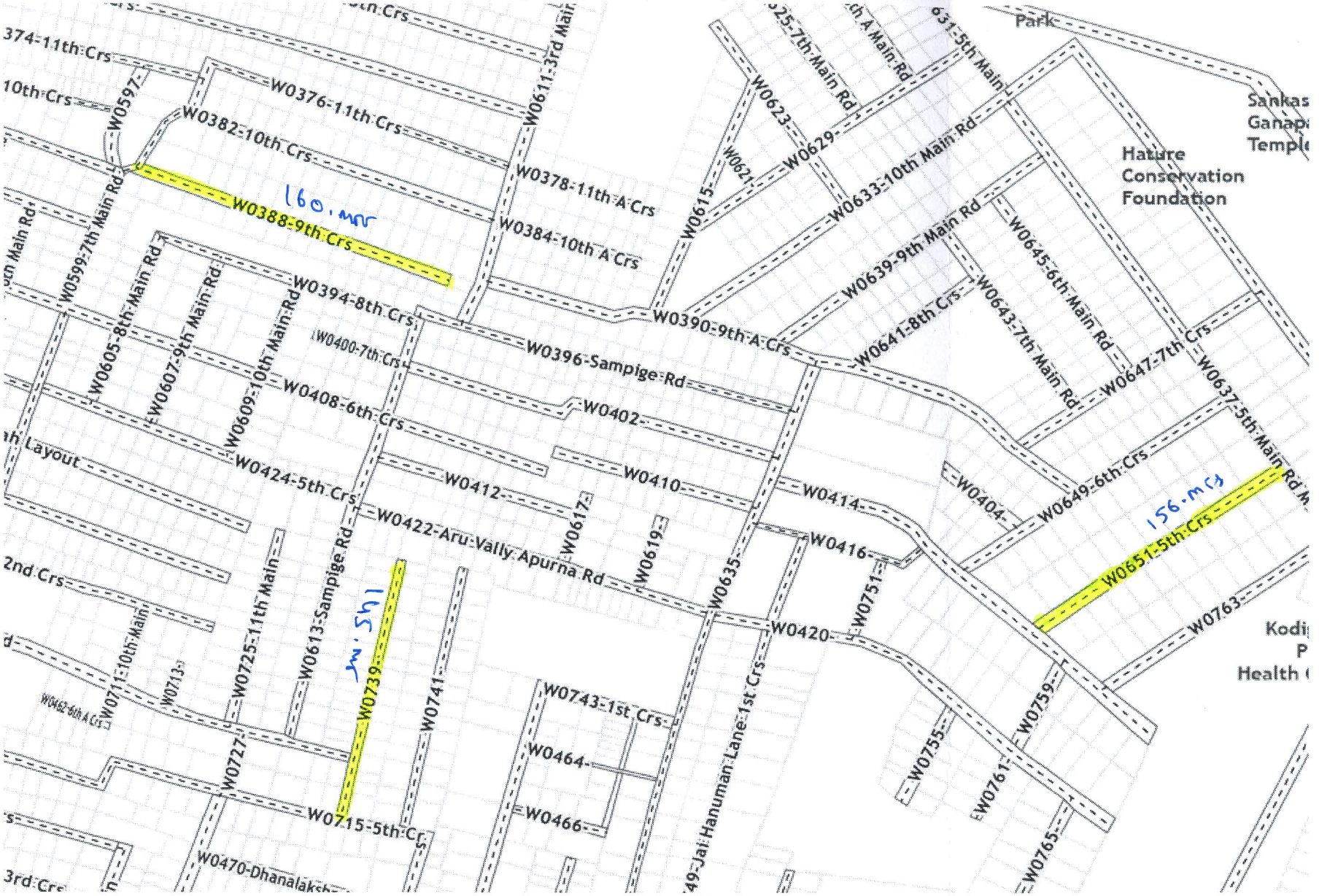
Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranyapura Sub Division

Executive Engineer 12/01
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

Administrative Approval
Accorded For 20.00 Lakhs 12/01
Head of A/C 1771
CER NO : 136 Dt. 12-01-17

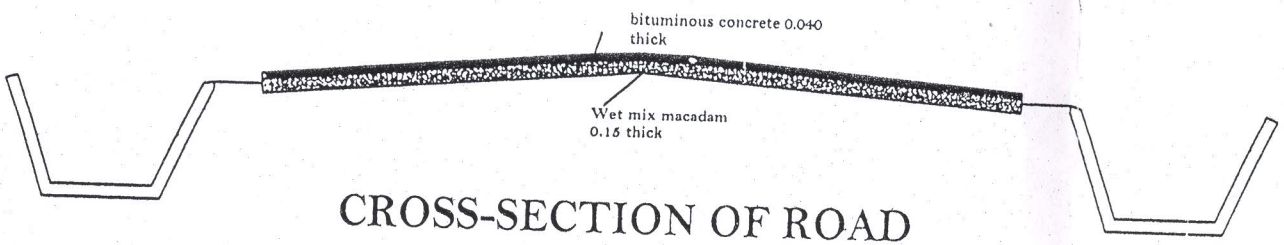
TA CE (YNK)

Name of work : Improvements to Roads and Drain at Canara Bank Layout 5th Main in Ward No. 09 (Vidyaranyapura) Vidyaranyapura Sub Division.



Jodha
AE

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97



CROSS-SECTION OF ROAD

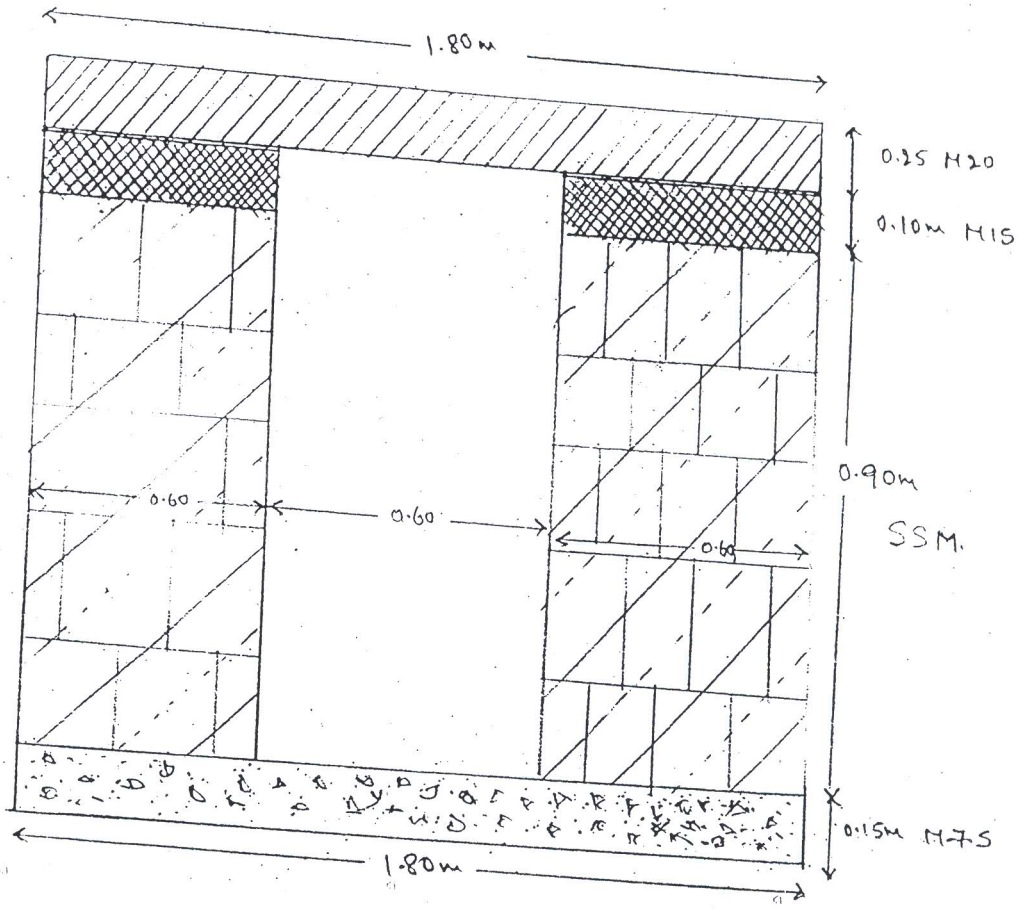
INDEX

Wet mix macadam

bituminous concrete

Zeeshan
AE

Assistant Executive Engineer
Vidyaranyapura Sub Division,
BBMP, Bangalore - 97



CROSS SECTION OF CULVERT

Jodha
AE

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97